Assignment 3

Implement the execution model for Prolog described in lecture 9 (http://www.cs.lth.se/EDA145/2009/lectures/4.pdf). The lecture notes contain the relevant algorithms for unification and resolution in pseudo code using an imperative language. The resolution algorithm uses backtracking. If you are unfamiliar with this technique you may discover it by yourself or consult your "algorithms and data structures" text book.

You are not required to construct a parser for Prolog rules and queries. Abstract representations of such values may be build manually using the constructors.

Optionally you may define the natural semantics for While for use in your system (or a professional system) and let the system prove the results of Examples 2.1 and 2.2 in Nielson.